

## technical information

MPO Interconnect Cable Assemblies are pre-terminated in 8, 16, and 24-fiber constructions that are used in high-density network applications. These interconnects are used with pre-terminated cassettes or FAP's in main and horizontal cabling distribution areas or to directly connect devices via MPO connectivity to support 40G – 400G parallel optic applications. All Interconnect cable assemblies are factory terminated and tested to deliver verified optical performance and reliability to support all 8-Fiber applications including SR4, DR4, SR4.2, and speeds from 10G to 800G and beyond.



## applications

Allows system designers to tailor configuration and reach to application requirements; to minimize waste, optimize cable management, speed deployment, and improve flexibility and manageability for lower installation costs.

## construction

<b>Cable type:</b>	Indoor
<b>Cable jacket ratings:</b>	Optical Fiber Nonconductive Plenum (OFNP) Low Smoke Zero Halogen (LSZH) Euroclass B2ca
<b>Fiber types:</b>	Singlemode: OS2 9/125µm Multimode: OM4 50/125µm OM5 50/125µm Signature Core™: OM4+ 50/125µm
<b>Connector types; end 'A':</b>	MPO/PanMPO™ Female MPO/PanMPO™ Male Note: Singlemode MPO connectors are angled polish
<b>Connector types; end 'B':</b>	MPO/PanMPO™ Female MPO/PanMPO™ Male Note: Singlemode MPO connectors are angled polish
<b>Fiber count:</b>	8, 16, 24
<b>Jacket color:</b>	OS2: Yellow OM4: Aqua OM5: Lime Green OM4+: Aqua

## optical properties

<b>Maximum cable attenuation:</b>	Multimode: 3.0dB/km at 850nm 1.0dB/km at 1300nm Singlemode: 1.0dB/km at 1310/1550nm
<b>Maximum connector insertion loss: (Per Mated Pair)</b>	Multimode: 0.35dB (Optimized IL) 0.25dB (Ultra IL) Singlemode: 0.75dB (Standard IL) 0.50dB (Optimized IL)
<b>Minimum connector return loss:</b>	Multimode: OM4: 26dB OM5: 26dB OM4+: 30dB Singlemode: OS2: 55dB

## physical properties

<b>Cable outside diameter (OD):</b>	8F–3.0mm 16F–3.8mm 24F–3.6mm
<b>Minimum bend radius:</b>	Under load: 20 x cable OD Static: 10 x cable OD
<b>Cable tensile strength:</b>	220N
<b>Cable compressive load:</b>	35N/cm
<b>Cable flex:</b>	25 cycles
<b>Cable twist:</b>	10 cycles
<b>Connector durability:</b>	500 mating cycles

## environmental properties

<b>Storage and shipping temperature:</b>	-40°C to 70°C -40°F to 158°F
<b>Installation temperature:</b>	0°C to 40°C 32°F to 104°F
<b>Operating temperature:</b>	0°C to 70°C 32°F to 158°F

## standards

<b>Meets or exceeds:</b>	ISO/IEC 11801, TIA/EIA-568-C.3, TIA-604-5 (FOCIS-5), TIA/EIA-568-C.1 RoHS Compliant
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# Base 8 MPO Interconnect Cable Assemblies

## part number configurator

Example: FRZ8PJY011F030 - OM4 8-Fiber Interconnect, Plenum, PanMPO-8 Female to PanMPO-8 Female, Polarity B, Optimized IL, 30 feet.

Character	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	F	R	Z	8	P	J	J	Y	0	1	1	F	0	3	0

### 1 – Fiber

F = Fiber

### 2 – Cable Type

R = Indoor, round

### 3 – Fiber Type

9 = OS2 Singlemode 9/125µm  
 Z = OM4 50/125µm  
 W = OM5 50/125µm  
 S = OM4+ 50/125µm

### 4 – Fiber Count

8 = 8 fibers  
 C = 16 Fibers  
 U = 24 fibers

### 5 – Jacket Type

P = Plenum (OFNP)  
 L = LSZH  
 B = LSZH Euroclass B2ca

### 6 & 7 – Connector Types

G = MPO-8 Female (MM)  
 H = MPO-8 Male (MM)  
 J = PanMPO-8 Female (MM)  
 K = PanMPO-8 Male (MM)  
 X = MPO-8 Female APC (SM)  
 Y = MPO-8 Male APC (SM)  
 V = PanMPO-8 Female APC (SM)  
 W = PanMPO-8 Male APC (SM)  
 U = Unterminated (End B only)

### 8 – Construction/Performance

A = Method A, Standard IL (SM)  
 B = Method B, Standard IL (SM)  
 X = Method A, Optimized IL  
 Y = Method B, Optimized IL  
 K = Method A, Ultra IL (MM)  
 L = Method B, Ultra IL (MM)

### 9 – 11 – Serial

See Table Below

### 12 – Unit of Measure

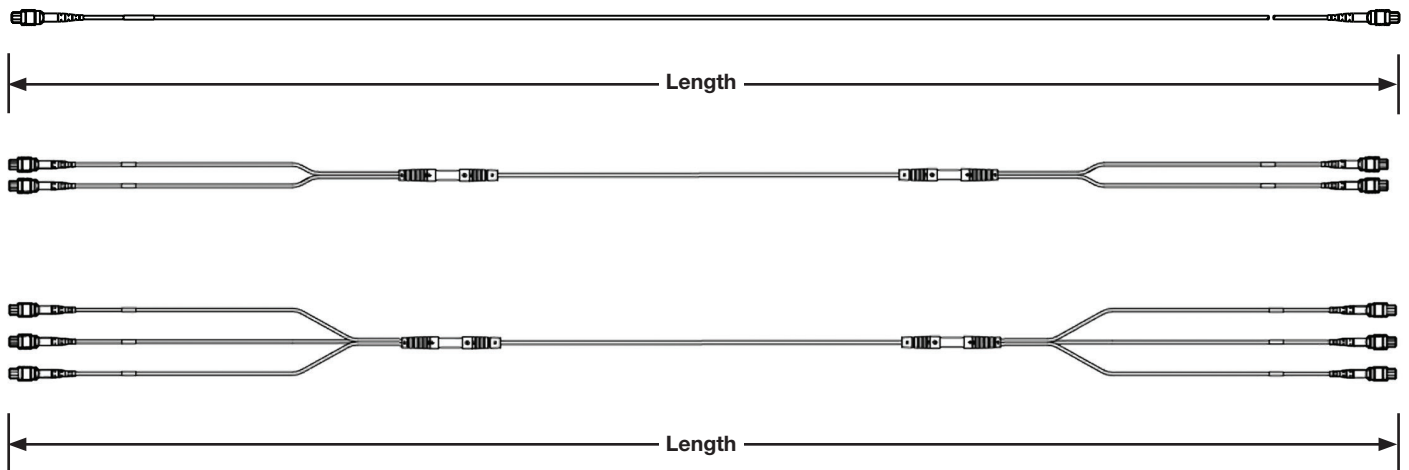
F = Feet  
 M = Meters

### 13, 14, 15 – Cable Assembly Length

1 – 300 Feet  
 0.5 – 100 Meters

Serial	Breakout – End A	Breakout – End B
011	None	None
012	24-inch (60 cm)	24-inch (60 cm)
013	None	24-inch (60 cm)

## QuickNet™ MPO Interconnect Round Cable Assembly Detail



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